

What is claimed is:

1. A remote control toy system comprising:

a plurality of sets, each set including a controller and a model controlled based on data transmitted from the controller,

5 the transmitted data corresponding to an operation of the controller; and

an accessory device, provided separately from the controllers and the models, for conducting data communication with the controllers and the models,

10 wherein each of the controllers, the models, and the accessory device separately comprises:

a radio communication module for executing the data communication and for conducting bilateral data communication; and

15 a control device for implementing various controls based on data communication conducted through the radio communication module.

2. The remote control toy system according to claim 1, wherein
20 the control device of the accessory device comprises:

a device for receiving data sent from the controller or the model, through the radio communication module;

a device for executing a procedure based on information contained in the received data; and

25 a device for generating data corresponding to a result of the procedure and sending the data through the radio communication module.

3. The remote control toy system according to claim 1, wherein the accessory device comprises an information input section for accepting input from the controller, and

5 the control device of the accessory device comprises:
a device for executing a predetermined procedure based on information input from the information input section; and
a device for generating data corresponding to a result of the procedure and sending the data through the radio
10 communication module.

4. The remote control toy system according to claim 2, wherein the control device of the controller comprises:

a device for receiving the data sent from the accessory
15 device, through the radio communication module; and
a device for executing a predetermined procedure based on the received data.

5. The remote control toy system according to claim 4, wherein

20 the sending device of the control device of the accessory device is configured to generate and send broadcast data intended for a plurality of controllers, and

the receiving device of the control device of each controller is configured to receive the broadcast data, and

25 the executing device of the control device of each controller is configured to execute a predetermined procedure common to all the controllers for which the broadcast data is

intended.

6. The remote control toy system according to claim 2, wherein the control device of the model comprises:

5 a device for receiving data sent from the accessory device, through the radio communication module; and

a device for executing a predetermined procedure based on the received data.

10 7. The remote control toy system according to claim 6, wherein the sending device of the control device of the accessory device is configured to generate and send broadcast data intended for a plurality of models, and

the receiving device of the control device of each model
15 is configured to receive the broadcast data, and

the executing device of the control device of each model is configured to execute a predetermined procedure common to all the models for which the broadcast data is intended.

20 8. The remote control toy system according to claim 1, wherein each model comprises a detection device for outputting a signal correlated to a play situation of the system,

the control device of each model comprises:

a device for effecting a predetermined decision concerning
25 the play situation based on the output signal of the detection device; and

a device for generating data corresponding to a result

of the decision and sending the data through the radio communication module,

the control device of the accessory device comprises:

5 a device for receiving data sent from the model to be associated with the output signal of the detection device, through the radio communication module;

a device for determining restrictions concerning an action of at least one model, based on the received data; and

10 a device for generating data corresponding to the determined restrictions and sending the generated data through the radio communication module, and

the control device of the controller or the model comprises:

15 a device for receiving data corresponding to the restrictions sent from the accessory device, through the radio communication module; and

a device for setting a corresponding relationship between the operation of the controller and the action of the model based on the received data.

20

9. The remote control toy system according to claim 8, wherein the device for setting a corresponding relationship between the operation of the controller and the action of the model changes a corresponding relationship between a quantity of an operation
25 of the controller concerning a specific action of the model and a quantity of control concerning the specific action of the model according to the restrictions.

10. The remote control toy system according to claim 1, wherein the radio communication module is based on Bluetooth standards.

5 11. A remote control toy system comprising:

a controller; and

a model controlled based on data transmitted from the controller, the transmitted data corresponding to an operation of the controller; and

10 each of the controller and the model comprises:

a radio communication module based on Bluetooth standards, the module serving as a device for executing communication between the controller and the model; and

15 a control device for executing remote control based on data communication conducted through the radio communication module.

12. The remote control toy system according to claim 11, wherein

20 the model comprises a detection device for outputting a signal correlated to a play of the system,

the control device of the model comprises:

a device for effecting a predetermined decision concerning the play based on the output signal of the detection device;

25 and

a device for generating data corresponding to a result of the decision and sending the data through the radio

communication module,

the control device of the controller comprises:

a device for receiving data sent from the model, through the radio communication module; and

5 a device for executing a predetermined procedure based on the received data.

13. A controller for remote-controlling a model, the controller comprising:

10 an operation input section for accepting a steering operation of the controller on the model;

a radio communication module based on Bluetooth standards, the module serving as a device for executing bilateral data communication between the controller and the model; and

15 a control device for implementing various controls based on data communication conducted through the radio communication module,

wherein the control device comprises:

20 a device for determining steering information to correspond to a state of the operation input section;

a device for generating data containing the determined steering information and sending the data through the radio communication module;

25 a device for receiving data sent from outside, through the radio communication module; and

a device for executing a predetermined procedure based on the received data.

14. A model remotely controlled based on steering information transmitted from a controller, the model comprising:

a driving source for implementing a predetermined action;

5 a radio communication module based on Bluetooth standards, the module serving as a device for executing bilateral data communication between the model and the controller; and

a detection device for outputting a signal correlated to a play of the model,

10 a control device for implementing various controls based on data communication conducted through the radio communication module,

wherein the control device comprises:

15 a device for receiving data containing the steering information transmitted from the controller, through the radio communication module;

a device for controlling an action of the driving source based on the steering information;

20 a device for effecting a predetermined decision concerning the play based on the output signal of the detection device; and

a device for generating data corresponding to a result of the decision and sending the data through the radio communication module.

25

15. An accessory device used in combination with a controller and a model remotely controlled based on data transmitted from

the controller, the accessory device comprising:

a radio communication module based on Bluetooth standards,
the module serving as a device for executing bilateral data
communication between the accessory device and the controller
5 and between the accessory device and the model; and

a control device for implementing various controls based
on data communication conducted through the radio communication
module,

wherein the control device comprises:

10 a device for receiving data sent from the controller or
the model, through the radio communication module;

a device for executing a procedure based on information
contained in the received data; and

a device for generating data corresponding to a result
15 of the procedure and sending the data through the radio
communication module.

16. An accessory device used in combination with a controller
and a model remotely controlled based on data transmitted from
20 the controller, the accessory device comprising:

a radio communication module based on Bluetooth standards,
the module serving as a device for executing bilateral data
communication between the accessory device and the controller
and between the accessory device and the model;

25 a control device for implementing various controls based
on data communication conducted through the radio communication
module; and

an information input section for accepting an information input from the controller,

wherein the control device comprises:

5 a device for executing a predetermined procedure based on information input from the information input section; and

a device for generating data corresponding to a result of the procedure and sending the data through the radio communication module.